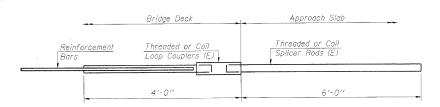
\*\* ONE PIECE - Wire Connector

WELDED SECTIONS

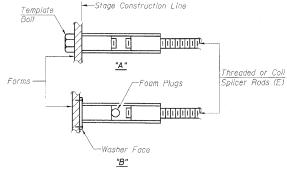
# BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



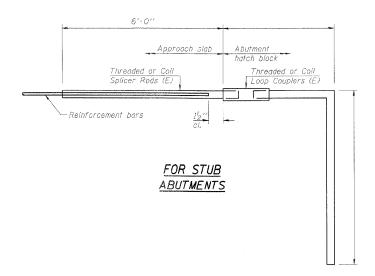
## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension



### INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.



	Bai	Splicer	for	#5	bar		
Min.	Capacity	= 23.0	kips	- ;	ensio	n	
Min.	Pull-out	Strength	= ,	12.3	kips		tension

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

reinforcement burs.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Splicer assembly satisfies the following requirements:

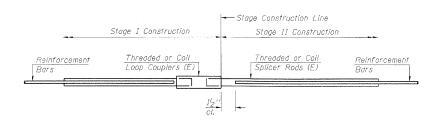
Minimum Capacity
(Tension in kips) = 1.25 x fy x A<sub>t</sub>

Minimum \*Pull-out Strength
(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.
A<sub>t</sub> = Tensile stress area of lapped reinforcement bars.

\* = 28 day concrete

		Strength Requirements				
	Splicer Rod or Dowel Bar Length	Min. Capacity	Min. Pull-Out Strength kips - tension			
#4	1'-8''	14.7	7.9			
#5	2'-2"	23.0	12.3			
#6	2'-7"	33.1	17.4			
#7	3'-5''	45.1	23.8			
#8	4'-6''	58.9	31.3			
#9	5′-9′′	75.0	39.6			
#10	7'-3''	95.0	50.3			
#11	9'-0''	117.4	61.8			



### <u>STANDARD</u>

Bar Size	No. Assemblies Required	Location
#5	32	Deck
#6	6	Deck
#6	6	Deck

### BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 016-0085

benesch alfred benesch & company Engineers · Surveyors · Planners Composition (Composition of Composition of Co

SHEET NO. 9		F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		290	(3031.1, ETC.	., 3838)R	S-5	COOK	298	230
9	SHEETS					CONTRACT	NO. 60	G52
		FED. R	DAD DIST. NO.	ILLINOIS	FED. A	ID PROJECT		

DESIGNED JJJ CHECKED AAY RMG DRAWN CHECKED AAY

BSD-1

10-1-08